

# EUROPEAN PATENT OFFICE

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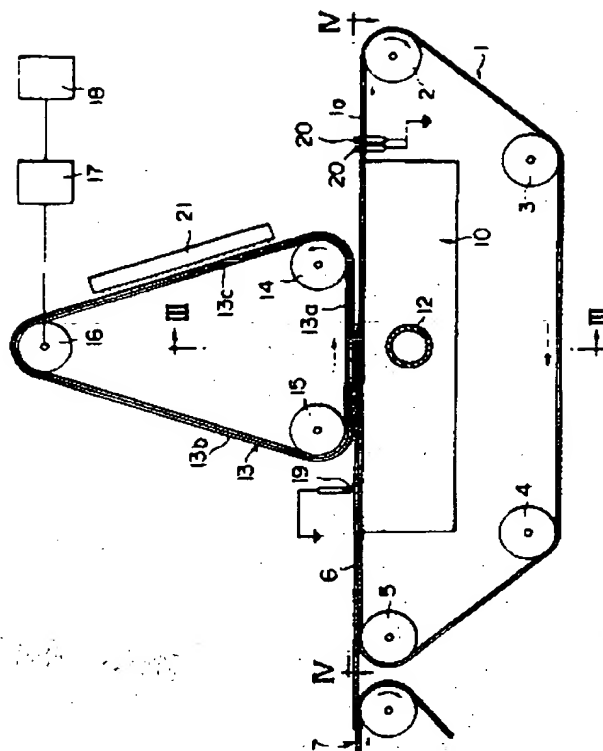
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INVENTOR : TATSUTA MASAKAZU;

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TITLE : METHOD AND DEVICE FOR SURFACE  
TREATMENT OF METALLIC PLATE



ABSTRACT : PURPOSE: To form a surface film of superior paintability and to eliminate the need for solvent type primer coats used heretofore by modifying the thin film consisting of an oily org. material formed on the surface of a metallic plate by a corona discharge treatment.

CONSTITUTION: A metallic plate 6 is conveyed in a flat state by the upper span part 1a of an endless belt 1, and an endless belt 13 which has an outer layer 13b consisting of a dielectric material (e.g.; polyester resin) and an inner layer 13c consisting of a conductive material (e.g., copper strip), and of which the layer 13b faces the plate 6 is provided by facing the plate 6 and movably in parallel therewith. A high frequency oscillator 18 is connected to the layer 13c, and the plate 6 is grounded with an outlet side metallic brush 20. In the above-mentioned device, the thin film consisting of an oily org. material formed on the surface of the plate 6 is modified by a corona discharge treatment to the surface film having excellent paintability, and the need for solvent type primer coats used heretofore for the purpose of improving paintability is eliminated.

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